

**WHAT IS CLAIMED IS:**

1. A vehicle axle comprising a supporting frame; two lateral members engaged in rotary manner by respective vehicle wheels and connected in rotary manner to said frame to oscillate about respective axes of rotation; power transmission means interposed between said wheels and a power input shaft; and a steering assembly for controlling the angular positions of the lateral members about the relative axes of rotation, and comprising at least one steering actuating cylinder acting on one of the lateral members, and a connecting bar extending between the lateral members; characterized in that said connecting bar comprises a central portion engaging said frame in sliding manner; and two lateral portions, each connected in rotary manner to said central portion and to a relative said lateral member.
- 15 2. The axle as described in claim 1, wherein said frame comprises a box body housing at least part of said transmission means; and a cover closing the box body; said cover being engaged in sliding manner by said central portion.
3. The axle as described in claim 2, wherein said cover has a guide hole having a cross section substantially similar to a cross section of said central portion.
- 20 4. The axle as described in claim 3, wherein said frame has a longitudinal axis; said central portion extending substantially parallel to said longitudinal axis.
- 25 5. The axle as described in claim 4, further comprising a spherical connecting means interposed between each said lateral portion and said central portion.

6. The axle as described in claim 5, further comprising a further spherical connecting means interposed between each said lateral portion and the relative said lateral member.

5 7. The axle as described in claim 5, wherein each said lateral portion is hinged to the relative said lateral member to oscillate about a relative hinge axis.